

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/591,883
Source: IFWP
Date Processed by STIC: 9/25/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/591,883

CRF Edit Date: 9/25/06
Edited by: he

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFWP

RAW SEQUENCE LISTING

DATE: 09/25/2006

PATENT APPLICATION: US/10/591,883

TIME: 12:42:32

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09252006\J591883.raw

3 <110> APPLICANT: UNIVERSITY OF FLORIDA
 5 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATMENT OF DISEASES
 6 ASSOCIATED WITH ABERRANT MICROSATELLITE EXPANSION
 8 <130> FILE REFERENCE: 49163-60677PCT
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/591,883
 C--> 11 <141> CURRENT FILING DATE: 2006-09-07
 13 <150> PRIOR APPLICATION NUMBER: 60/551,748
 14 <151> PRIOR FILING DATE: 2004-03-10
 16 <160> NUMBER OF SEQ ID NOS: 55
 18 <170> SOFTWARE: PatentIn Ver. 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 5588
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Mus musculus
 25 <400> SEQUENCE: 1
 26 ggcgacatgc cacagtctct cgccgcagcc cgtcgagtcg gggcgctcgc catgctcccg 60
 27 tgacccggac cgggccagtt ccccttcccg tggcgggcat cccggagtcg cgatcccaca 120
 28 atgccccggg cagtcggggc cccggcgggc agcctgcacg gccacgtgag aggttggtac 180
 29 taagaagtgc ctttctctgac gtctctgctg cttggaaccg cttctagagc agcctctgct 240
 30 tttgccttgc ttgctgccag ctagactgac gacagcacat ccgccctcca cctctagccc 300
 31 agacacccca tttctacttc taatcaggag aaaagctctg agtatctgcc attgccctag 360
 32 gctgcttttag tttagaagaa aggtttgctg aaaaagtaag ataccttctg ccaggaaatc 420
 33 aaggaggaaa aaaaaaaatc attttctcga ttttgctcta aactgctgca tctgtctatg 480
 34 ccaactaat caataccgat tgcaccacca aactccatcg caaatcagct gtgaggagat 540
 35 tccctgtcag acaactttgc tgaaagcagc ttggaaattc ggtgtcaaag ggtctgccac 600
 36 gttttcatgc ttgcattttg ggctccaaat tggcactggg aaggggttac tgagcacacg 660
 37 gctgagtcca ggctcctct aaacacccat ctacttacag tcttggtatt cctctcaaaa 720
 38 ccaaaacctc tttgaattaa cagtttcatg ctgtgaattt ctacggaggg tctttccctt 780
 39 tatattgaag tcacactttt ccatgtgccg ttaaactcggg gacgggggaa gcagccttcc 840
 40 ggacattttc acagttatct cacactctga gttttatcag ttctatttt gtttagtttt 900
 41 tgtcttttgt tttggttgct gatttttttt ttctattttt ctttttcttt ttcttttctt 960
 42 tttttctttt tgttttttcc tttttttttt tttggagagg ggttgggttt gttggtttca 1020
 43 ttgaacattt aactacctgt aaaatataaa catggctgtt agtgtcacac caattcggga 1080
 44 cacaaaatgg ctaacactgg aagtatgtag agagtttcaa agggggactt gctcacgacc 1140
 45 agacacggaa tgtaaatgtg cacatccttc gaaaagctgc caagttgaaa atggacgagt 1200
 46 aatgcgctgc tttgattcac tgaaaggtcg ttgctccaga gagaactgca aatatcttca 1260
 47 tccaccccca cacttaaaaa cacagttaga gataaatggg cggaataact tgattcagca 1320
 48 gaagaacatg gccatgctgg ccagcaaat gcagttagcc aatgccatga tgcccgggtg 1380
 49 cccgttgtag cccgtgccaa tgttttcagt tgcaccaagc ttagccacca gtgcatcagc 1440
 50 agcctttaac ccttacctgg ggccgtgttc cccaagcctg gttccagcag agatcttgcc 1500
 51 gactgcacca atgttggtca cggggaatcc tggagttcca gtgccagcag ctgccgcagc 1560
 52 tgetgcacag aagttaatgc ggacagacag actggaggtg tgetcagagt accagcgtgg 1620
 53 caattgcaac agaggagaaa atgactgtcg gtttgctcat cctgctgaca gcacaatgat 1680

RAW SEQUENCE LISTING

DATE: 09/25/2006

PATENT APPLICATION: US/10/591,883

TIME: 12:42:32

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09252006\J591883.raw

```

54 tgataccaat gacaacacag tcaactgtctg catggattac atcaagggga gatgctctcg 1740
55 ggaaaagtgc aaataacttcc atcctcccgc acacctgcaa gccaaagatca aggctgcca 1800
56 ataccaggtc aaccaggctg cagcagcaca ggctgcagct actgcagctg ccatgggaat 1860
57 tcctcaagct gtacttcccc cattgccaaa gaggcctgct cttgaaaaaa ccaacgggtgc 1920
58 caccgcagtc tttaacactg gtattttcca ataccaacag gctctagcca acatgcagtt 1980
59 acagcagcat acagcatttc tcccaccagg ctcaatattg tgcagcacac ccgctacaag 2040
60 tgttgttccc atggtgcacg gtgctacgcc agccactgtg tccgcagcaa caacatctgc 2100
61 cacaagtgtt cccttcgctg caacagccac agccaaccag ataccataa tatctgccga 2160
62 acatctgact agccacaagt atgttaccca gatgtagagc tgcctgcaca aaacaatcat 2220
63 acaaagagga aaggacagtg tgcttgatta gagtaaggac gacgtcatta gccatattgt 2280
64 atataccgtc aagcaacaca taaaaaatc cctcagccac aagacatcca catattgcat 2340
65 gttaaccaga agaaacgaca acatgggaac ctgctgcaca ctgttgccca cacactttgt 2400
66 acattcagtt ggtattttgt ctgaggtgat attcctatct aaaacaacaa cattgtcttt 2460
67 cttttgtagc acagagttat gcattaaaat atgcatacgt aattagtttc ctatatattc 2520
68 atgccatctt gaaaagacag actatggtgt gaccatgatt ctattatgta ttggtacgtc 2580
69 tgtagacca gatataattt tttaaaaata agtttatttc tttcaagggt tacaagtaac 2640
70 caaggtgcac cttgtattta aaatcgccgt tagagctgag agcgcgcagc cagagtcatt 2700
71 tttgtttgag agtaaatatt ttactgtaat agattgtacg acatggtgag ggagggaact 2760
72 gacagatgaa tgtgccaaagc aaaaccacaa ctgtgtatat tttaaagcac accatggctt 2820
73 taagtaccat gttgttaagg attctcatga agtgccatag actgtacatc aaattagagt 2880
74 attatttctt cagtgttatt gtttctggag ccacattttg ttgcttattt gctagtacta 2940
75 atcaatcaaa gggcaccatt cttttctttt ttgtttttga aaccaaagct gtctcagaaa 3000
76 tggccaattt aactttacag taacaataga cagcacaaca caaactcaat acagataacc 3060
77 tttcacatac tggagatata tatgatagat atataaaatt attttaatgc attgtagtgt 3120
78 aatatttatg catactctac tatataacat gttattcaaa agggatatgc catttctgag 3180
79 acacaataac aaaaaatgtt tgaggaaatt attttgcttc tatttatagc ctctgtcaaa 3240
80 agtcaaaaga ctataaatgc tttgcagaaa tgggttcacg tttgcttaaa cgcttcatca 3300
81 cagtcacatt caaaatagtg actctaaaca aagagaacag cactgtcatc agatgcatga 3360
82 taaacaaaaa tatgaaaatg ggaaatgttt aattaaccta gtaattgggt gggttaagta 3420
83 catgggtgaa ttttatatgt gattcttttg ttcagattaa ctgcttatag ccttagaaaag 3480
84 ccttttaaaa aattttaaaa atagatgtgc attcagtttt taagaatgga ttcattccaa 3540
85 ggaattcccc ttttttgtgg tttggatgtt gcagctagga aaggctattt ttgctctgtt 3600
86 cagcagttct aaaatcgctg agtaggggccc aggtcactgg cagttctagt gtggaatggg 3660
87 agaagtgaga gttctgttat agaactttcc atacttccaa gtttactgca agtttttatg 3720
88 cttgagagag atgctttcta atataagact gatgtgttga ttttctgat tgtactgtac 3780
89 atctattaaa gccttagatt attacattac ggggttggaa ccataccaat gtaatttcaa 3840
90 tcgtgttaag agagtaattg tgacttcaca tgttattgta gttagttacg ttatagaata 3900
91 ttacttattt ttcttgttaa aatgtagtgt ttcatttcct acatttattg gattttcatt 3960
92 ttctattaac agttgaatac catttcagtt tttagactat tgttttatta gattttacca 4020
93 atgaattttt caaaatacaa aaaaattaaa gtagtttttt cttcataaca tactcagttt 4080
94 taaattacat gtagtgtcat atgaatatcc gtattattgt taactaaatg atttatattt 4140
95 tactgattta atattacagt gtaagaatgt cagtcattgt tcttgtctag ttttcattaa 4200
96 aagaacaaag atcttttata tggatatctt ataaatatat aatcattgct aagtaagaag 4260
97 ttaagttgtt gctatggcaa caatcctggc agacaattga gtaatatttt gatgatttat 4320
98 tttgtttgta attagttatt atgagaagat ctagatccta gatattagaa taaaatttat 4380
99 tttctactgt atccatttca aatgttaaag tattgtttaa tatttttgaa atccctgaat 4440
100 atcaggcctt gttataaata agctgcataa tcaataaata gaacaaggga ctttttgttg 4500
101 ataattccaa tactcaaagt ttacgtaatg agaattttag cgtgtgtgca aactcttgag 4560
102 ggttgatgat gctgcaattt agcatgttgg aaagtctaga gagaagggtg actttttgca 4620

```

RAW SEQUENCE LISTING

DATE: 09/25/2006

PATENT APPLICATION: US/10/591,883

TIME: 12:42:32

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09252006\J591883.raw

```

103 cttctgtata tagtcaaaag agagaaacct gtataatagc aagatcttat tttgaataaa 4680
104 aacgtctata attacaagga gttttgttaa ggctaatagaa atgacagact gagcaaaatt 4740
105 gcttgcaaaa gtggcacaga gtttagcactc catacccttc aaacacgtcg ctttgctttt 4800
106 tgtggacagc ttgtagtttg ccaggatttt tcagctggaa agatttgcca tccttccaag 4860
107 atctcatgac tgacaaaact ccattgggcc aaatctgcct gaagatcatt accaaaaaat 4920
108 agcagggtact tcagccacta agatgaaatc atggatcaga tatcccttac attgttttca 4980
109 aaactactgc atgtttaaaa cttcaacaaa aagagagaaa gaactatgct aaggacatat 5040
110 attattcaga tcgatatcta ccaatttcag tggtttaatg ttcacaaaat gaaatcttga 5100
111 aaataactat tgactttcac aaaattttta ccataaacag gcaaaccaaa cagcacacct 5160
112 gtagttgttc tgtgattgtt ttttaattgc tgtagatcat gttctttccg cagggtggaa 5220
113 aaaaaaaaaa aaaaaaaaaa gaagttcaaa tttcacagtt ttaattttca actcagaagc 5280
114 aaaagagcaa aatgtgacaa tggccacttg tttaatgact tgggtgcca gctgtcactg 5340
115 cagctggcta ctgatgttg acttaccagc aaccaccca ccttcatctg ccgaaaggac 5400
116 agtgagcttg gttttacgat tatgtaatca caacttactt tctgcttgta gtggcttaaa 5460
117 attatgtatt ttgtctaggg ctgcaatttg ttttatgctt actttattat tactgcagta 5520
118 gttgactttg ctgtatggaa aaataaagcg aaattgcctt aataaaaact ctctttctta 5580
119 agtaaaaaa
122 <210> SEQ ID NO: 2
123 <211> LENGTH: 4527
124 <212> TYPE: DNA
125 <213> ORGANISM: Mus musculus
127 <400> SEQUENCE: 2
128 agcagtggta acaacgcaga gtacgggggg tgggaaggaa gggctgcagc tcacagcaac 60
129 agagttaga ctgtctttgc ttcattcatc gaaggtaaaa ttttccagcc acggccggcg 120
130 gctcgcagag tacaataaac agggacggag aactatttgc atggaccccc ctctctcatg 180
131 atgcggtgga gaagccacgg ccactcggtc ctgccagatg ttcttggggg tactgtacat 240
132 ggggaagacg agcagagcta aacaagaatt taaagaggac gaaggaagga aagcgccatc 300
133 ctgctcaaat acaaagatct aagagggttg ttttccaca tcctccaaag ctgtgagcat 360
134 tagaactaat attttcccaa agagtgccat cgtattaaag ccactttatt aaggaggggt 420
135 gtatctgcaa aacagtcaag agactagaac cctgggagcc agagatgaca gtgagcacgc 480
136 actgcttggt gctcacagtc ttccagtggg gcctatcgat cgggtgactga ctctctgctt 540
137 gctgacacat tccccctccc cggtttctct gattggactg cattaagaa ttactgctt 600
138 accttcaaac ttacatgttg gagttttcac ggcggttggt ttgagatcat tgagactcgg 660
139 attgatttcg acatttaacc gaaaggaaca gagcccaaag tagttctcat catggccttg 720
140 aacgttgccc ccgtgagaga cacaagtgg ctgacgctgg aggtctgcag acagtaccag 780
141 agaggaacgt gtcacgctc cgacgaagaa tgcaagtttg ctaccccc caaaagttgc 840
142 caggttgaaa atggaagagt aattgcctgc tttgattccc tcaagggccg ctgttcaaga 900
143 gagaactgca aatatcttca tcctccgaca cacttaaaaa ccagctaga gattaatggg 960
144 aggaacaatt tgatccagca aaaaactgca gcagcgatgc ttgccagca gatgcaattt 1020
145 atgtttccag gaacgcgct ccactctgtg cccacttttc ctgtaggtcc caccataggg 1080
146 acaaatgcgg ctattagctt tgcctcttac ttagcgctg tcaccttg agttgggtta 1140
147 gtcccaacag aggttctacc cactacaccg gtcattgttc ccggaagtcc accggtcact 1200
148 gtcccggtc caactgcaac tcagaaactt ctgaggactg ataaactgga ggtatgcagg 1260
149 gagttccagc gaggaactg tgcgcgggga gagacagact gccgcttgc acaccggca 1320
150 gacagacca tgatcgacac aaacgacaac accgtaaccg tttgtatgga ttacataaag 1380
151 gggcggttgc tgagggagaa atgcaaatat tttcacctc ctgcacactt gcaggccaaa 1440
152 atcaaagctg cgcagacca agccaaccag gccgcggtg ccgccaggc agccgcggcc 1500
153 gcggccacag tcatggcctt ccctcgggt gctcttcac ccttaccaaa gagacaagca 1560
154 cttgaaaaaa gcaacggggc cagcacggtc ttcaaccca gcgtcttgca ctaccagcag 1620

```

RAW SEQUENCE LISTING

DATE: 09/25/2006

PATENT APPLICATION: US/10/591,883

TIME: 12:42:32

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09252006\J591883.raw

```

155 gctctgacca gtgcgcagct gcagcagcac acggcggttca tccccacagt acccatgatg 1680
156 cacacgcgcta cgtccgccac tgtctctgca gcaacaactc ctgcaacaag tgtccccttc 1740
157 gcagcaacag ccacagccaa tcagataatt ctgaaataat caacagaaat ggaatggaat 1800
158 gccaagaatc tgcattgaga ataactaaac attgttactg tacatattac cccgtttcct 1860
159 cctcaataga attgccacaa actgcatgct aaatttagtt cttctggaca gaccacaacc 1920
160 ctaaggctag ttctgctatg tcatatatga gtattaaata tggtagctt agtatactcc 1980
161 agcctaagat agttaaccac ctgagaccag ctgtgatgtt cgaagacata caggatgagg 2040
162 ttttctttca cagggttctg agcatagttt ctgtcccagg aatattgtct tatctccata 2100
163 actatagctg atgcagaaag tccagacaat atactcattt cgactcagaa tatttcaaat 2160
164 ttagcaataa acagtttagct ttagttttaa gtacctattc caagggcagg ttcgattgta 2220
165 actccaatca caaccatttc atttcctgac tggatcgaag ggtatgattc acttcttgag 2280
166 gagacggaca gtgcgcagcag agagaagtga agtaaaacat acgcctgcct cgcagggtcta 2340
167 aagtctgagt ggcagctcaa gcacaattgc cagggggacac atcagagtgt ggggttcgct 2400
168 ttgccaggag atgccgcact gaatcatggg attctagaat aacattgcat agattgaaaa 2460
169 aaaaaaaaaa actttgcacg gtatgagctt catacccaac ccaacaaagt cttgaaggta 2520
170 ttattttaca agtatatttt taaagttggt ttataagaga gactttgtag aagtgcctag 2580
171 attttgccag acttcatcca gcttgacaag aatgaaaggc tcatgccaat agtcgaatct 2640
172 aagggtattg tctttcaaac tcgccctccg gttgcctggt accgaataac tcttcaaac 2700
173 taaaacctag tcaaacaggg aagctgtagg tgaggagggtc tgtataatat tccagtttaa 2760
174 gtacgtctga gtttagtcac tacagatgca aactgtgact ttaatctaaa ttactatgta 2820
175 aacgaaaaaa aaaagtagat agtttcactt ttaaaaaact ccattactgt ttttgcattt 2880
176 taagagttgg attaaagggg tgtaagtaac tgcagcatgg aaaaatagtt cttttaattc 2940
177 tttcacctta aagcatattt tatgtctcaa aagtataaaa aactttaata caagtacaca 3000
178 catattatat atacacatac atatatatac tatatatgga tgaaacatat tttaatgttg 3060
179 tttacttttt ttaaatactt ggttgatctt caaggtaata gcgatacaat taaattttgt 3120
180 tcagaaagtt tgttttaaag tttattttaa gcactatcgt accaaatatt tcatatttca 3180
181 cattttatat gttgcacata gcctacacag tacctacata gtttttaaat tattgtttaa 3240
182 gaaatgaaac agctgttata aatggatatt atgtgttaatt gtttaaaaca tccattttct 3300
183 ttgtgaacat ttagtgattt gaagtatttt gacttttgag attgaatgta aaatatttta 3360
184 aattttggta tcatcgcttg ttctgaaaac tagaggcatc caaccatata attttttttg 3420
185 attgaaaaaa gatctgcatt taattcatgt tgggtcaaagt ctaattacta tttatcttac 3480
186 atcatagatc tgataactgt atcgaaaaga gaaatcacat tctgagtgtg atcttgcata 3540
187 gtgcttggtg cgtgtttggt ttttaattgt ggaaagggtat tgtatctaac ttgtatcacc 3600
188 ttgatagttc tcatctttat gtattattga tatttgtaat ttctcagct ataacaatgt 3660
189 agttacgcta caacttgctt aaaacactca tacttttttt tttctttact tactcattta 3720
190 aactcattga gaagatagta gactaaaaag gtaaatattg ggaatcactg aaatattttt 3780
191 gtagactaat tgttgtaact gtccctttctt cctttcattt catgattttt attttaaaaa 3840
192 ttattagcac atagctattt tcagcccttt aataactgat catcaaaaca tcacctgtat 3900
193 cccccagcca atatagatga ctgtattttt tactatgata tccattttcc agaattgtga 3960
194 ttataatatg cagagtcaaa tatgccattt acaataagga ggaggccagg caaatgcata 4020
195 gatgtacaaa tatatgtaca acagattttg ctttttattt atttataatg taattttata 4080
196 gaataattct gggatttgag aggatctaaa actatttttc tgtataaata ttatttgcca 4140
197 aaagtttggt tatattcaga agtctgacta tgatggataa atcttaaatg ctttgtttaa 4200
198 ttacaaaaac aaaatcacca atatccaaga caggaagatc tcagttcaac agctccggta 4260
199 gttaggggaa taactccact tgcacaggac ttcatttcac tcttggtttt cagggtataa 4320
200 cagcacttca cagaactatt ctttcagcca tacaccactg gtcacatttc tactaaatct 4380
201 ttctgtaaca cttcttaaag aattccctca ttcgttatct tacagtgtaa acaggactct 4440
202 aatttgatc aattatatgt tttggttgta atattcagtt cactcaccca atgtacaacc 4500
203 aatgaaataa aagaagcatt taaaagg 4527

```

RAW SEQUENCE LISTING

DATE: 09/25/2006

PATENT APPLICATION: US/10/591,883

TIME: 12:42:32

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09252006\J591883.raw

```

206 <210> SEQ ID NO: 3
207 <211> LENGTH: 1967
208 <212> TYPE: DNA
209 <213> ORGANISM: Mus musculus
211 <400> SEQUENCE: 3
212 ctgaaggatc acgtaactca gaaaatctaa aacacattat gtgtccaaat cagttcttct 60
213 gagttacgcg gacgcgtggg tttcacgacg caagtgcgtc ctacaggaag aaagtgtccc 120
214 cagtcggagc ggcgagcagga ggcgcacttt ttggcgctct ttgcgagcga gccgcaagga 180
215 ggcggaagac ggtcccgggc cggggcgcgg gaatcggggc agcgagcgcc gcacggggga 240
216 gttcctgctc gtggcgctct cgcagcgaga cgccgctgga gtcgctcact cggagagatt 300
217 ccttgaacca tctgcagtca taatattctc tgaagagggt gcacttgatt gccaatgtgc 360
218 tctcagtatg acacctgtca atgtagctct aatccgtgat accaagtggc tgactttaga 420
219 agtctgtaga gaatttcaga gaggaacttg ctctcgagct gatgcagagt gcaggtttgc 480
220 ccatccgcca agagtttggc atgtggaaaa tggccgagtg gtggcctgtt ttgattcact 540
221 aaagggctcg tgcactcgtg agaactgcaa gtacctccac cctccaccgc acttaaagtc 600
222 gcagctagaa gttaatggga gaaacaatct gattcaacag aagactgccg cagccatgtt 660
223 cgcccagcac atgcaactca tgctgcagaa cgctcagatg tcactctctg cgtcttttcc 720
224 tatgaatcca tcacttgcag ctaatcctgc catggctttc aatccttaca tgactcatcc 780
225 tggcatgggc ctgggtcctg ctgagctttt accaaatggg ccggttctga tttctggaaa 840
226 cctcctctct gcaactgccg gaggctcctg tccaaagcca attcgtacag atagactgga 900
227 gggttgccgt gaatttcagc gtggaaattg taccgctggg gagagcgagt gccgctatgc 960
228 tcaccttacg gatgtttcca tgattgaagt cactgataat tctgtgacaa tctgcatgga 1020
229 ttacattaaa ggccgatgct cccgggagaa atgcaagtac tttcatctc ctccccactt 1080
230 gcaggccaaa ctcagggcag ctcatcacca gatgaacct tctgctgcca atgcaatggc 1140
231 cctgccgcat ggtgcacttc aactgatacc aaagagggtc gcccttgaca aggccaatgg 1200
232 tgccactcca gtctttaacc ccagtgtttt ccaactgcaa caggctctgg ctaacatgca 1260
233 gattcctcag caggctttta tcccacagc gcccatgatg cacggtgcta caccttccac 1320
234 tgtgtctaca gcaacaccac ctgccagcaa cgttccctac gttccaacaa ctacaggcaa 1380
235 ccagttgaaa tattgagcag cagagttaca gagtatcaga atctctcaac aagaaactcc 1440
236 gtgtggcctt tctatatgta ttctcgtatg tcttcttgta ccaacacgac aataagcatg 1500
237 gtgcagtcaa tatactaaag cgcataatac tgttgacaaa ttcaaatttt aaaaatctgt 1560
238 ggagatgtta aagcaaatag aaaattaacc agtatgtgtt accttatacg gattcattgt 1620
239 atatgaatta gcatacaata tacaaccata caggtttgtc atgtatatga attatcagat 1680
240 ccatattaca tgaattttcc atatgatatg aattaccata ttgaatataa ctgtaaaatg 1740
241 ttgtgactgc tttccagtaa tgggtttataa taaatgaact tccacagtgt actgtaggct 1800
242 tactgtatac tcttggtgga taaattctgt tttggaagtg ttaccttact gttttgttta 1860
243 caagatagtc tataggattg atgtagaatg taactgatat ttcccacacc attttcctcc 1920
244 attggtatat tgtattaaat tgggttctgc ttaaaaaaaa aaaaaaa 1967
247 <210> SEQ ID NO: 4
248 <211> LENGTH: 32
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
254 Primer
256 <400> SEQUENCE: 4
257 tgggatggaa ttgtggtgtg ttgttgetca tg 32
260 <210> SEQ ID NO: 5
261 <211> LENGTH: 27

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/591,883

DATE: 09/25/2006
TIME: 12:42:33

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09252006\J591883.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:42; Xaa Pos. 2,3,4,5,6,7,8,10,11,12,13,14,15,17,18,19

Seq#:43; Xaa Pos. 2,3,4,5,6,7,8,10,11,12,13,15,16,17

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/591,883

DATE: 09/25/2006

TIME: 12:42:33

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09252006\J591883.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0

M:341 Repeated in SeqNo=42

L:948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0

M:341 Repeated in SeqNo=43

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING

DATE: 09/21/2006

PATENT APPLICATION: US/10/591,883

TIME: 11:31:54

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09212006\J591883.raw

3 <110> APPLICANT: UNIVERSITY OF FLORIDA
 5 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATMENT OF DISEASES
 6 ASSOCIATED WITH ABERRANT MICROSATELLITE EXPANSION
 8 <130> FILE REFERENCE: 49163-60677PCT
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/591,883
 C--> 11 <141> CURRENT FILING DATE: 2006-09-07
 13 <150> PRIOR APPLICATION NUMBER: 60/551,748
 14 <151> PRIOR FILING DATE: 2004-03-10
 16 <160> NUMBER OF SEQ ID NOS: 55
 18 <170> SOFTWARE: PatentIn Ver. 3.3

ERRORED SEQUENCES

1110 <210> SEQ ID NO: 55
 1111 <211> LENGTH: 1000
 1112 <212> TYPE: DNA
 1113 <213> ORGANISM: Homo sapiens
 1115 <400> SEQUENCE: 55
 1116 cccaccttca ccatgtctga cgaggaagtt gaacaggttg aggagcagta cgaagaagaa 60
 1117 gaggaagccc aggaggaaga ggaagttcaa gaagacaccg cagaggagga cgcggaagag 120
 1118 gagaaaccga gacccaaact cactgtctct aagatcccag aaggggagaa agtggacttc 180
 1119 gatgacatcc agaagaagcg tcagaacaaa gacctaatgg agctccaggc cctcatcgac 240
 1120 agccactttg aagcccggaa gaaggaggag gaggagctgg tcgctctcaa agagagaatc 300
 1121 gagaagcgcc gtgcagagag agcggagcag cagaggattc gtgcagagaa ggagagggag 360
 1122 cgccagaaca gactggcgga ggaaaaggcc agaaggaggagg aggaggatgc caagaggagg 420
 1123 gcagaggacg acctgaagaa gaagaaagcg ctgtcctcca tgggcgcca ctacagcagc 480
 1124 tacctggcca aggctgacca gaagagagggc aagaagcaga cagcccgaga gatgaagaag 540
 1125 aagattctgg ctgagagacg caagccgctc aacatcgatc accttgggtga agacaaactg 600
 1126 agggacaagg ccaaggagct ctgggagacc ctgcaccagc tggagattga caagttcgag 660
 1127 tttggggaga agctgaaacg ccagaaatat gacatcacca cgctcaggag ccgcattgac 720
 1128 caggcccaga agcacagcaa gaaggctggg accccagcca agggcaaagt cggcgggcgc 780
 1129 tggaagtaga gaggccagaa aggccctcga ggcagagacc ctccgccctc ttgcacacca 840
 1130 gggccgctcg tgggactcca catcctccag cccccacaat cctgtcaggg gtctccctga 900
 1131 cgtcctgggg gtggagaggg catcccgggg cgtccccgcg gtctgtgtcc ttgctgcctt 960
 1132 catcccctgg ggcctgtgaa taaagctgca gaacccccctt 1000
 E--> 1137 1

Does Not Comply
 Corrected Diskette Needed

VERIFICATION SUMMARY

DATE: 09/21/2006

PATENT APPLICATION: US/10/591,883

TIME: 11:31:55

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09212006\J591883.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:16
L:948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:16
L:1137 M:254 E: No. of Bases conflict, this line has no nucleotides.